

AUHE Search Strategy: Economic Model Search Strategies

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Academic Unit of Health Economics, University of Leeds. 2019. Economic Model Search Filter <https://information-specialists.leeds.ac.uk/wp-content/uploads/sites/71/2019/06/Econ-models-filter.pdf> Date accessed [add date accessed]

About the strategies

These search strategies aim to retrieve studies about Economic Models. There are two variants: with/without a health state txt searches.

This strategy was first developed in 2010 by Judy Wright and has been further developed by iterative validation. It was last checked 24/06/19 and peer-reviewed by Natalie King and Donna Irving.

This document lists search filters for:

- CINAHL (Ebsco)
- Cochrane Library (Wiley)
- EMBASE (Ovid)
- Global Health (Ovid)
- MEDLINE (Ovid)
- PsycINFO (Ovid)
- Web of Science

Table 1 Search field and symbol key

	OVID	EBSCO	Cochrane	WOS
Title field	.ti	TI	ti,	TI
abstract field	.ab	AB	ab	
Other fields	.tw- title word	AF – all fields TX- Text word	Kw - keyword	TS=Topic
subject heading (MESH)	/ (if the / appears after a word e.g. policy/)	MH	MeSH descriptor: [Africa] this term only	
exploded subject heading	exp	+ (MH "Europe, Eastern+")	MeSH descriptor: [Africa] explode all trees	
Adjacent to (two words within a (number) of words apart)	adj2	N2	near/2	Near/2

Database: Cinahl

S16	(MH "Economic Value of Life")	582
S15	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13	41,489
S14	S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11	20,035
S13	TI (disease state* and (econom* or cost* or qaly* or utilit*)) OR AB (disease state* and (econom* or cost* or qaly* or utilit*))	857
S12	TI health state* OR AB health state*	21,517
S11	TI ("transition probabilit*" and (state or states or model*)) OR AB ("transition probabilit*" and (state or states or model*))	375
S10	TI state transition model* OR AB state transition model*	340
S9	TI ((econom* or cost or costs) n5 model*) OR AB ((econom* or cost or costs) n5 model*)	7,482
S8	TI decision n4 model* OR AB decision n4 model*	4,672
S7	TI Markov n4 model* OR AB Markov n4 model*	2,582
S6	TI Discrete event* n7 model* OR AB Discrete event* n7 model*	259
S5	TI Discrete event* n4 simulat* OR AB Discrete event* n4 simulat*	308
S4	TX simulat* n2 model* AND TX decision*	717
S3	TI patient level n7 simulat* OR AB patient level n7 simulat*	113
S2	TI microsimulat* OR AB microsimulat*	437
S1	(MH "Decision Trees") OR (MH "Decision Support Techniques")	7,471

Database: Cochrane Library

#1	MeSH descriptor: [Models, Economic] explode all trees	317
#2	MeSH descriptor: [Models, Econometric] explode all trees	95
#3	MeSH descriptor: [Markov Chains] explode all trees	257
#4	MeSH descriptor: [Decision Trees] explode all trees	157
#5	MeSH descriptor: [Decision Support Techniques] explode all trees	2387
#6	microsimulat*:ti,ab,kw	81
#7	("patient level" near/8 simulat*):ti,ab,kw	26
#8	((simulat* near/3 model*) and decision*):ti,ab,kw	131

#9	("discrete event*" near/5 simulat*):ti,ab,kw	46
#10	("discrete event*" near/8 model*):ti,ab,kw	38
#11	(decision* near/5 model*):ti,ab,kw	1248
#12	(model* near/5 markov*):ti,ab,kw	1050
#13	((econom* or cost or costs) near/6 model*):ti,ab,kw	2970
#14	"state transition model*":ti,ab,kw	51
#15	("transition probabilit*" and (state or states or model*)):ti,ab,kw	0
#16	"health state*":ti,ab,kw	680
#17	("disease state*" and (econom* or cost* or qaly* or utilit*)):ti,ab,kw	54
#18	{or #1-#15}	6795
#19	{or #1-#17}	7406

Database: Embase Classic+Embase <1947 to 2019 June 21>

- 1 simulation/ or computer simulation/ (262119)
- 2 decision making/ (216561)
- 3 1 and 2 (3236)
- 4 Economic model/ (1675)
- 5 *statistical model/ (22487)
- 6 decision support system/ (20640)
- 7 hidden markov model/ (3016)
- 8 ((econom* or cost or costs) adj6 model*).tw. (35087)
- 9 ((simulat* adj3 model*) and decision*).tw. (3014)
- 10 microsimulat*.tw. (1526)
- 11 (patient level adj8 simulat*).tw. (270)
- 12 (discrete event* adj5 simulat*).tw. (1114)
- 13 (discrete event* adj8 model*).tw. (910)
- 14 (decision* adj5 model*).tw. (20806)
- 15 (model* adj5 markov*).tw. (19303)
- 16 (decision adj2 tree*).tw. (11242)
- 17 "state transition model*".tw. (810)

- 18 ("transition probabilit*" and (state or states or model*)).tw. (3055)
- 19 "health state*".tw. (10269)
- 20 ("disease state*" and (econom* or cost* or qaly* or utilit*)).tw. (2555)
- 21 or/3-18 [WITHOUT txt word search for health states] (118817)
- 22 or/3-20 [WITH txt word search for health states] (127970)

Database: Global Health <1910 to 2019 Week 24>

- 1 econometric models/ (83)
- 2 markov processes/ (434)
- 3 decision support systems/ (258)
- 4 ((econom* or cost or costs) adj2 model*).tw. (2008)
- 5 ("cost effectiveness" adj2 model*).tw. (350)
- 6 (markov* adj5 model*).tw. (1728)
- 7 (decision* adj8 model*).tw. (2952)
- 8 (discrete event* adj8 model*).tw. (80)
- 9 (discrete event* adj5 simulat*).tw. (79)
- 10 (patient level adj8 simulat*).tw. (7)
- 11 microsimulat*.tw. (357)
- 12 ("health state*" and (model* or simulat*)).tw. (287)
- 13 ("disease state*" and (model* or simulat*)).tw. (428)
- 14 "state transition model*".tw. (108)
- 15 ("transition probabilit*" and (state or states or model*)).tw. (227)
- 16 ("disease state*" and (econom* or cost* or qaly* or utilit*)).tw. (150)
- 17 or/1-16 [Economic models] (7690)

Database: HMIC Health Management Information Consortium <1983 - present>

- 1 exp Economic models/ (159)
- 2 exp decision making/ and (model* or markov).tw. (632)
- 3 exp Decision analysis/ (52)
- 4 microsimulat*.tw. (43)
- 5 (patient level adj8 simulat*).tw. (2)
- 6 (simulat* adj3 model*).tw. and decision*.mp. [mp=title, other title, abstract, heading words]
(70)
- 7 (discrete event* adj5 simulat*).tw. (82)
- 8 (discrete event* adj8 model*).tw. (52)
- 9 (decision* adj5 model*).tw. (547)
- 10 markov*.tw. (246)
- 11 ((econom* or costs or cost) adj6 model*).tw. (1412)
- 12 "state transition model*".tw. (25)
- 13 ("transition probabilit*" and (state or states or model*)).tw. (15)
- 14 "health state*".tw. (335)
- 15 ("disease state*" and (econom* or cost* or qaly* or utilit*)).tw. (14)
- 16 or/1-13 [WITHOUT txt search for health state] (2562)
- 17 or/1-15 [WITH txt search for health state] (2859)

Database: Ovid MEDLINE(R) <1946 to June Week 3 2019>

- 1 models, economic/ or models, econometric/ (14171)
- 2 markov chain/ (13451)
- 3 Decision Trees/ (10584)
- 4 decision support techniques/ (18887)
- 5 microsimulat*.tw. (830)
- 6 (patient level adj8 simulat*).tw. (77)
- 7 (simulat* adj3 model*).tw. and decision*.mp. (1908)
- 8 (discrete event* adj5 simulat*).tw. (596)
- 9 (discrete event* adj8 model*).tw. (479)

- 10 (decision* adj5 model*).tw. (12404)
- 11 (model* adj5 markov*).tw. (11114)
- 12 ((econom* or cost or costs) adj6 model*).tw. (19127)
- 13 "state transition model*".tw. (404)
- 14 ("transition probabilit*" and (state or states or model*)).tw. (1455)
- 15 "health state*".tw. (5091)
- 16 ("disease state*" and (econom* or cost* or qaly* or utilit*)).tw. (1332)
- 17 or/1-14 [WITHOUT txt search for health state] (78113)
- 18 or/1-16 [WITH txt search for health state] (83171)

Database: PsycINFO <1806 to June Week 3 2019>

- 1 simulation/ or exp computer simulation/ or models/ (91782)
- 2 decision making/ (70137)
- 3 1 and 2 (3207)
- 4 decision support systems/ (3100)
- 5 markov chains/ (1457)
- 6 ((econom* or cost or costs) adj6 model*).tw. (7067)
- 7 (simulat* adj3 model*).tw. and decision*.mp. (768)
- 8 microsimulat*.tw. (165)
- 9 (patient level adj8 simulat*).tw. (12)
- 10 (discrete event* adj5 simulat*).tw. (150)
- 11 (discrete event* adj8 model*).tw. (123)
- 12 (decision* adj5 model*).tw. (10629)
- 13 (model* adj5 markov*).tw. (2153)
- 14 (decision adj2 tree*).tw. (1636)
- 15 "state transition model*".tw. (47)
- 16 ("transition probabilit*" and (state or states or model*)).tw. (330)
- 17 ("disease state*" and (econom* or cost* or qaly* or utilit*)).tw. (166)
- 18 "health state*".tw. (1456)
- 19 or/3-16 [WITHOUT health state search] (25761)

20 or/3-18 [WITH health state search] (27227)

Database: Web of Science

- # 13 **834,025** #12 OR #11 OR #10 OR #9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1
- # 12 **60,762** TOPIC: ((model* NEAR/5 markov*))
- # 11 **61,235** TOPIC: ((decision* NEAR/5 model*))
- # 10 **5,756** TOPIC: ((discrete event* NEAR/8 model*))
- # 9 **9,028** TOPIC: ((discrete event* NEAR/5 simulat*))
- # 8 **16,227** TOPIC: (((simulat* NEAR/3 model*) and decision*))
- # 7 **119** TOPIC: ((patient level NEAR/8 simulat*))
- # 6 **2,862** TOPIC: (microsimulat*)
- # 5 **78,177** TOPIC: (decision NEAR/2 support)
- # 4 **29,474** TOPIC: ((Decision* NEAR/4 (trees or tree)))
- # 3 **631,599** TOPIC: (((econom* or cost or costs) and model*))
- # 2 **899** TOPIC: ("state transition model*")
- # 1 **13,162** TOPIC: (("transition probabilit*" and (state or states or model*)))